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1. Patent**Document No.** JP-2-208333 **Translations Branch****Country Code** _____

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Publication Date 02/1990 **Translations****Language** Japanese **Translations****No. of Pages**

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OKAMOTO KENKICHI
TAKITA KOTARO
SAWADA SHUICHI

Applicant: TONEN CORP [352374] (A Japanese Company or Corporation), JP
(Japan)

Application No.: 01-027691 [JP 8927691]

Filed: February 08, 1989 (19890208)

International Class: [5] C08J-009 36; C08L-023 00

JAPIO Class: 14.2 (ORGANIC CHEMISTRY -- High Polymer Molecular Compounds); 24.3 (CHEMICAL ENGINEERING -- Mixing, Separation & Crushing)

JAPIO Keyword: R004 (PLASMA); R042 (CHEMISTRY -- Hydrophilic Plastics)

Journal: Section: C, Section No. 775, Vol. 14, No. 505, Pg. 54, November 05, 1990 (19901105)

ABSTRACT

PURPOSE: To impart hydrophilicity of excellent durability to a porous polyolefin film by selectively plasma-treating the surface part of the film to render it active and hydrophilic and treating the surfaces of the throughpores of the film with a hydrophilic agent.

CONSTITUTION: The surface part of a porous polyolefin film of a thickness of 1-25. μ m (desirably a high-MW polyethylene of an Mw of 1X10⁶-15X10⁶ and desirably of a throughpore diameter of 0.001-0.5. μ m) is plasma-treated in the presence of an oxygen-containing active gas or an inert gas such as nitrogen or argon to form an active layer of a wetting index \geq 54dyn/cm on the film. The plasma treatment is performed under conditions including a pressure of 10⁻²-10¹Torr, a microwave power of 0.1-1kW, a treatment time of 1-100sec and their product of 2-40, desirably 4-20 in the case of an active gas, or a microwave power of 0.5-5kW, a treatment time of 10-1000sec and their product of 200-1000, desirably 250-800 in the case of an inert gas. The throughpores of this treated film are wetted with a hydrophilic organic solvent or treated with a surfactant solution to convert the film into a porous hydrophilic polyolefin film.

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□ 3. 2/34/3 (Item 3 from file: 345)

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Basic Patent (No,Kind,Date): JP 2208333 A2 900817

PATENT FAMILY:

JAPAN (JP)

Patent (No,kind,Date): JP 2208333 A2 900817

POROUS HYDROPHILIC POLYOLEFIN FILM AND ITS PRODUCTION (English)

Patent Assignee: TONEN CORP

Author (Inventor): KONO KOICHI; OKAMOTO KENKICHI; TAKITA KOTARO;
SAWADA SHUICHI

Priority (No,Kind,Date): JP 8927691 A 890208

Applic (No,Kind,Date): JP 8927691 A 890208

IPC: " C08J-009/36; C08L-023-00

CA Abstract No: ; 113(24)213593J

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